

16638 US PTO
012204**UTILITY APPLICATION**

Attorney Docket No.: VAST.003A

First Named Inventor: David L. Hagen

Title: THERMODYNAMIC CYCLES USING LIQUID
DILUENT

Express Mail Label No.: EV 309090823 US

Direct all correspondence to Customer No.: 20995

Date: January 22, 2004

Page 1 of 2

Mail Stop Patent ApplicationUnited States Patent and Trademark Office
PO Box 1450
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10/763057
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The following enclosures are transmitted herewith to be filed in the patent application of:

Inventors:

- | | |
|-----------------------|-----------------|
| 1. David L. Hagen | 2. Gary Ginter |
| 3. Alberto Traverso | 4. Bill Goheen |
| 5. Allan McGuire | 6. Janet Rankin |
| 7. Aristride Massardo | |

APPLICATION ELEMENTS: Specification in 140 pages. Drawings in 25 sheets.

Reference to prior domestic applications is made in the:

 Reference to prior domestic applications is made in the specification.**CONTINUITY INFORMATION:**

Application	Relationship	Parent App. No.	Filing Date	Status
This Application	US Application	60/442,096	01/22/03	Pending
This Application	US Application	60/442,844	01/24/03	Pending

 Incorporation by Reference. The entire disclosure of the prior applications is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference therein.**OTHER APPLICATION PARTS:** Return prepaid postcard.



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FILING FEES:

FEE CALCULATION				
FEE TYPE		FEE CODE	CALCULATION	TOTAL
Basic Utility		1001 (\$770)		\$ 770
Excess Claims > 20	231 - 20 =	1202 (\$18)	211 x 18 =	\$3798
Independent > 3	5 - 3 = 2	1201 (\$86)	2 x 86 =	\$ 172
Multiple Claim		1203 (\$290)		\$ 290
			TOTAL FEE DUE	\$5030

(X) The total fees calculated above will be paid at a later date.

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MAIL STOP PATENT APPLICATION

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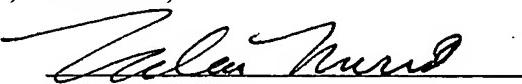
CERTIFICATE OF MAILING BY "EXPRESS MAIL"

Attorney Docket No. : VAST.003A
Applicants : Hagen et al.
For : THERMODYNAMIC CYCLES USING LIQUID DILUENT
Attorney : Rabinder N. Narula
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Date of Deposit : January 22, 2004

I hereby certify that the accompanying

Transmittal letter; specification in 140 pages; 25 sheets of drawings; Return Prepaid Postcard

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Nelson Merida

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